

Title (en)

METHOD AND APPARATUS FOR FORMING OPPOSING HOLES IN A SIDE WALL OF A TUBULAR WORKPIECE

Title (de)

VERFAHREN UND VORRICHTUNG ZUM FORMEN VON GEGENÜBERLIEGENDEN LÖCHERN IN EINER SEITENWAND EINES ROHRFÖRMIGEN WERKSTÜCKES

Title (fr)

PROCEDE ET APPAREIL PERMETTANT DE FORMER DES TROUS OPPOSES DANS UNE PAROI LATÉRALE D'UN ÉLÉMENT À TRAVAILLER DE FORME TUBULAIRE

Publication

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Application

EP 00949032 A 20000726

Priority

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- US 36199899 A 19990728

Abstract (en)

[origin: US6067830A] A method of cutting opposing holes in a side wall of a tubular workpiece and removing the cut out slugs, in which first and second axially aligned punches are applied to opposite side walls of a pressurized workpiece. The second punch has a larger width than the first punch, and reciprocates in a passageway extending laterally from the workpiece. The punches are reciprocated so that the first punch passes through both side walls, and first and second slugs are cut out. The end of the first punch is advanced toward the end of the second punch to capture the cut out slugs between the ends of the first and second punches, and the punches are moved so that the ends of the punches and the slugs captured between them progress along the passageway away from the workpiece. The ends of the punches are separated at a region of the passageway spaced from the workpiece, and the released slugs are removed from the ends of the punches.

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